

KANSAS DEPARTMENT OF TRANSPORTATION
DIVISION OF OPERATIONS

SPECIFICATIONS
FOR
7 TON MULTI-AXLE TILT UTILITY TRAILER

The following specifications and dimensions shall apply to purchases of 7 TON MULTI-AXLE TILT UTILITY TRAILER for the Kansas Department of Transportation (KDOT). The KDOT reserves the right to waive minor technicalities under this specification. Federal and State laws supersede any conflicting part of this specification.

The unit shall be a current model, new and unused, under standard production by the manufacturer, and of which parts are stocked at one or more locations in Kansas or Greater Kansas City. All parts utilized on the unit shall be new and unused.

The bidder agrees, if his proposal is accepted, to guarantee the design, material and workmanship of the unit bid according to the standard factory warranty, or for one year from the date of acceptance, whichever is greater. A copy of the warranty shall accompany the bid. Warranty coverage shall include costs of transporting the unit to and from dealer's shop, when outside a 150 mile radius of the delivery point.

Complete specifications and literature on the unit bid shall accompany the bid. Any exceptions to these specifications shall be indicated on the bid or on a separate attachment to the bid, labeled as such.

Any "or equal" or "equivalent" items for brand specified components shall be listed with the bid package. Complete description and literature on the "or equal" components shall be supplied for consideration by the KDOT. The burden of proof regarding "or equal" items will be upon the vendor.

PRE-DELIVERY SERVICE: The unit shall be **DELIVERED COMPLETE AND FULLY OPERATIONAL**. It shall be properly serviced, free of leaks, and all mechanical adjustments made prior to delivery. A minimum of **THREE DAYS NOTICE PRIOR TO DELIVERY** shall be given to the person to whom the unit is to be shipped.

PRINTED MANUALS: One operators manual shall be supplied with each unit. One set of manuals shall be delivered to each delivery point. Set shall consist of the following: shop manual, parts manual, wiring diagram, and operators manual. The manuals shall fully and clearly cover all components of the unit.

ITEM: 7 TON MULTI-AXLE UTILITY TILT TRAILER

SHOW MFG. & MODEL OFFERED _____

<u>MFG. CODE</u>	<u>EXCEPTIONS TO SPECIFICATION</u>	<u>SPECIFICATIONS</u>
<u>PAINT:</u>		
_____	_____	All painted surfaces to be properly primed and painted to match Dupont Paint Co. Stock No. LF4602, or equivalent.
<u>GALVANIZED STEEL OPTION:</u>		
_____	_____	Give optional pricing for all frame structure to be galvanized steel. Entire frame structure shall be hot dipped galvanized after all welding is complete. The Galvanized coating shall be in accordance to ASTM 123/A 123M-2. \$ _____
_____	_____	The outer frame and top surfaces will be primed with two part epoxy primer with an acrylic urethane color top coat to match Dupont Paint Co. Stock No. LF4602, or equivalent.
_____	_____	Undercarriage to be powder coated to match color ordered.
<u>GENERAL ASSEMBLY:</u>		
_____	_____	The trailer shall be equipped with a minimum 10,000 lb, heavy duty hydraulic or screw type adjustable stiff leg, capable of being locked in the upright and stored position, for use when the trailer is not connected to the towing unit.
_____	_____	The overall trailer length shall be approximately 28'-0", including the approach ramp.
_____	_____	The unit shall be a tandem axle, tilt bed type trailer with a maximum 11 degree load angle.
_____	_____	The unit shall comply with the Federal Motor Carrier Safety Regulations.

<u>MGF. CODE</u>	<u>EXCEPTIONS TO SPECIFICATION</u>	<u>SPECIFICATIONS</u>
<u>CAPACITY:</u>		
_____	_____	The trailer shall be able to haul a minimum 14,000 payload and have a maximum 19,000 gross trailer weight rating (GTWR).
_____	_____	The trailer shall be able to be towed at 65 miles per hour.
<u>FRAME:</u>		
_____	_____	The frame shall be made from electrically welded structural steel.
<u>AXLES AND BRAKES:</u>		
_____	_____	The unit shall have a minimum of two 7,000 lb. torsion axles.
_____	_____	The unit shall have surge brakes on each axle.
<u>PLATFORM:</u>		
_____	_____	The platform width shall be a minimum of 82" between the fenders with the maximum allowable width of the trailer being 102".
_____	_____	The platform length shall be a approximately 18' 0", not including the approach ramp.
_____	_____	The deck shall be made of 1½" white oak on 12" center to center crossmembers.
_____	_____	The platform shall contain a minimum of four stake pockets per side, 2" x 3" minimum size.
_____	_____	The platform shall have a minimum of five "D" tie down rings on each side, plus two on the tongue each side.
_____	_____	Unit shall have a C8-8.5# channel iron welded to top front edge of the platform.

<u>MGF. CODE</u>	<u>EXCEPTIONS TO SPECIFICATION</u>	<u>SPECIFICATIONS</u>
<u>PLATFORM (continued):</u>		
_____	_____	An angled approach ramp at the end of the trailer shall be provided so a scissor lift may be driven onto the trailer.
_____	_____	The approach ramp shall be an integral part of the trailer.
_____	_____	The trailer shall have an adequate method of mechanically securing/locking the platform horizontally prior to towing.
<u>STATIONARY DECK:</u>		
_____	_____	The stationary deck shall be approximately 4' long.
<u>HYDRAULICS:</u>		
_____	_____	The hydraulic system shall be provided and shall include a wireless remote control to vary the angle of the platform to load the trailer and orient it for towing.
_____	_____	Major components of the hydraulic system shall be located on the stationary deck of the trailer.
<u>HITCH:</u>		
_____	_____	The unit shall be equipped with a heavy duty 3 inch pintle eye type hitch.
_____	_____	The hitch height shall be a nominal 19 inches from the ground.
_____	_____	The trailer tongue shall be designed so that the hitch has an adjustable height of 18" to 30" with the trailer level.

<u>MGF. CODE</u>	<u>EXCEPTIONS TO SPECIFICATION</u>	<u>SPECIFICATIONS</u>
<u>WHEELS:</u>		
_____	_____	The unit shall have a minimum of 215/75R x 17.5, 10 ply rating, trailer tires, mounted on appropriately sized disc type wheels.
_____	_____	The wheels shall have eight holes each for lug bolts.
<u>ACCESSORIES:</u>		
_____	_____	The unit shall be equipped with a spare tire and wheel. Spare should be easily removable.
_____	_____	The unit shall be equipped with plain, non-plastic mud flaps, clearance lights, rear identification lights, conspicuity marking, and reflectors.
_____	_____	The trailer shall contain grommet mounted combination LED stop, turn and tail lights mounted above the main platform.
_____	_____	A light shall be mounted to illuminate the license plate on the rear of the unit.
_____	_____	All light wiring shall be Type STO, size 14 AWG, hard service cord with an oil resistant thermoplastic outer covering and 45 mils nominal thickness of thermoplastic or rubber insulation.
_____	_____	A seven-way electrical connector shall be furnished for connecting lights and brakes to the front of the trailer. The electrical connector shall meet SAE J560. An example connector is Cole-Hersee No. 1255.
_____	_____	Lighting and reflectors shall comply with ICC Regulations and the Motor Vehicle Laws of the State of Kansas.

<u>MGF. CODE</u>	<u>EXCEPTIONS TO SPECIFICATION</u>	<u>SPECIFICATIONS</u>
<u>ACCESSORIES (continued):</u>		
<hr/>	<hr/>	Properly sized safety chain, minimum Proof Grade 70, with safety hooks shall be installed to trailer frame so it can be removed and replaced without any welding or cutting with enough length to allow cornering. All hardware for attaching the chains shall meet or exceed the strength of the chain.